

### L-14x160-G520-M-CLR-S

Directed 30 degree LED line light for industrial image processing



Made in GERMANY © evotron 2019-02

# Functional Overview 1 2 3 4 5 1 Housing 2 Glass cover, light field 3 Mounting groove - dovetail

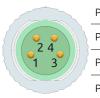
### Connection plan

The LED lighting must be controlled with a suitable constant current source!

Profile groove - M3 hexagon screws Robotics connection cable with M8 plug

Suitable for operation are evotronLIGHT lighting controllers or other commercially available LED controllers with a regulated current output. (see technical data)

### Pin Assignment M8 male 4-pin



	PIN 1	brown	$+I_{LED}$
	PIN 2	withe	SD *
	PIN 3	blue	-I <sub>LED</sub>
	PIN 4	black	SG *

\* this pins only use for LED-Lightings with evotronLIGHT-Technology

### IMPORTANT NOTICE



Do not connect the LED lighting directly to a 24V power source or to any power supply.

# Dimensions 174,5 40 40 Cable length without connector = 200 mm All dimensions in mm

### **Technical Data** LED-Colour, Wavelength Green, 520 nm Radiation Angle 30° Glass Optical Material Dimension Light Field (B x L) 14 mm x 161 mm Dimension Housing (H x B x L) 17 mm x 17 mm x 174.5 mm Housing Material Aluminium / PA12 Weight 103 g Protection Rating IP 67 **Protection Class** III, Safety Extra Low Voltage (SELV) Risk Group (DIN EN 62471) Free Group 85 °C Thermal Protection $T_{MAX}$ M8-male, 4-pin Plua type Continuous Operation Nom LED-Current 0 A 240 mA 240 mA LED-Forward Voltage 13.2 V 15.2 V Power Consumption 0 W 3.2 W 3.6 W Flash Mode LED-Current 0 A 3.2 A LED-Forward Voltage 24.0 V Power Consumption @ Pulse (t<sub>PUIS</sub> 100 µs) 0 W 76.8 W

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**evotron** GmbH & Co. KG Pfütschbergstraße 16 98527 Suhl /Germany

← +49 (0) 3681-4529950⋈ info@evotron-gmbh.de

\* www.evotron-gmbh.de

### Intended Use

This LED lighting is intended solely for use in the field of industrial automation technology, laboratory metrology and industrial image processing.

The permissible ambient conditions for the transport, assembly and operation of the module must be observed.



### Safety Notes

Operate this LED line light only in perfect, undamaged condition.

Configure the application so that the LED lighting is always within its technical specification.

Improper installation can damage the LED lighting.

Installation, assembly and commissioning must be carried out by qualified personnel.



# Risk of injury from flickering, glare or radiation

Flickering, glare and stroboscopic effects can cause psychological disorders such as headache, discomfort or fatigue.



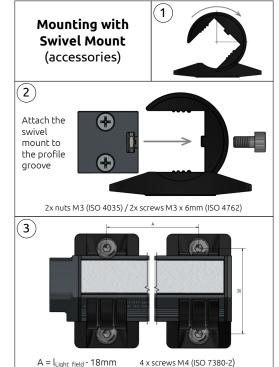
### Risk of glare

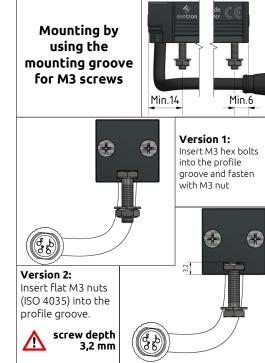
A strong glare effect may cause a temporary reduction in eyesight, which may cause irritations or accidents.

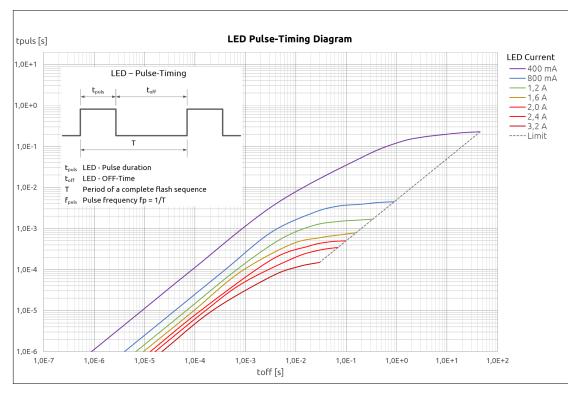


## Risk of burns due to hot surfaces

The lighting surface can reach a housing temperature of  $> 55\,^{\circ}\text{C}$  during operation. Do not cover or touch the lightings during operation.







### **Putting into operation**

Operate the LED lighting exclusively with the parameters specified under the item Technical data.

For the flash mode, you can read off the required minimum OFF-time  $t_{\rm off}$  directly from the pulse timing diagram depending on the selected LED flash current and the desired flash duration  $t_{\rm outs}$ .

The LED lighting is intended for use with a suitable LED constant current source.

### Cleaning

You can clean the outside of the lighting with a damp cloth. For the glass surface use a cleaner that is suitable for optical components.

Make sure that your cleaning solvent is approved for the material used.

### **Technical Support**

Questions concerning our products will be answered by our technical support:

support@evotron-gmbh.de

+49 (0) 3681 / 4529951

### Disposal

This product is RoHS compliant.

Instructions for the proper disposal of old devices can be obtained from the manufacturer, local sales partner or relevant national authority.

Alternatively, this product may be returned to the manufacturer for proper disposal.

Packaging and packaging aids are recyclable and should always be recycled.

The product itself must not be disposed of in the domestic waste.



WEEE-Reg.-Nr. DE85473784